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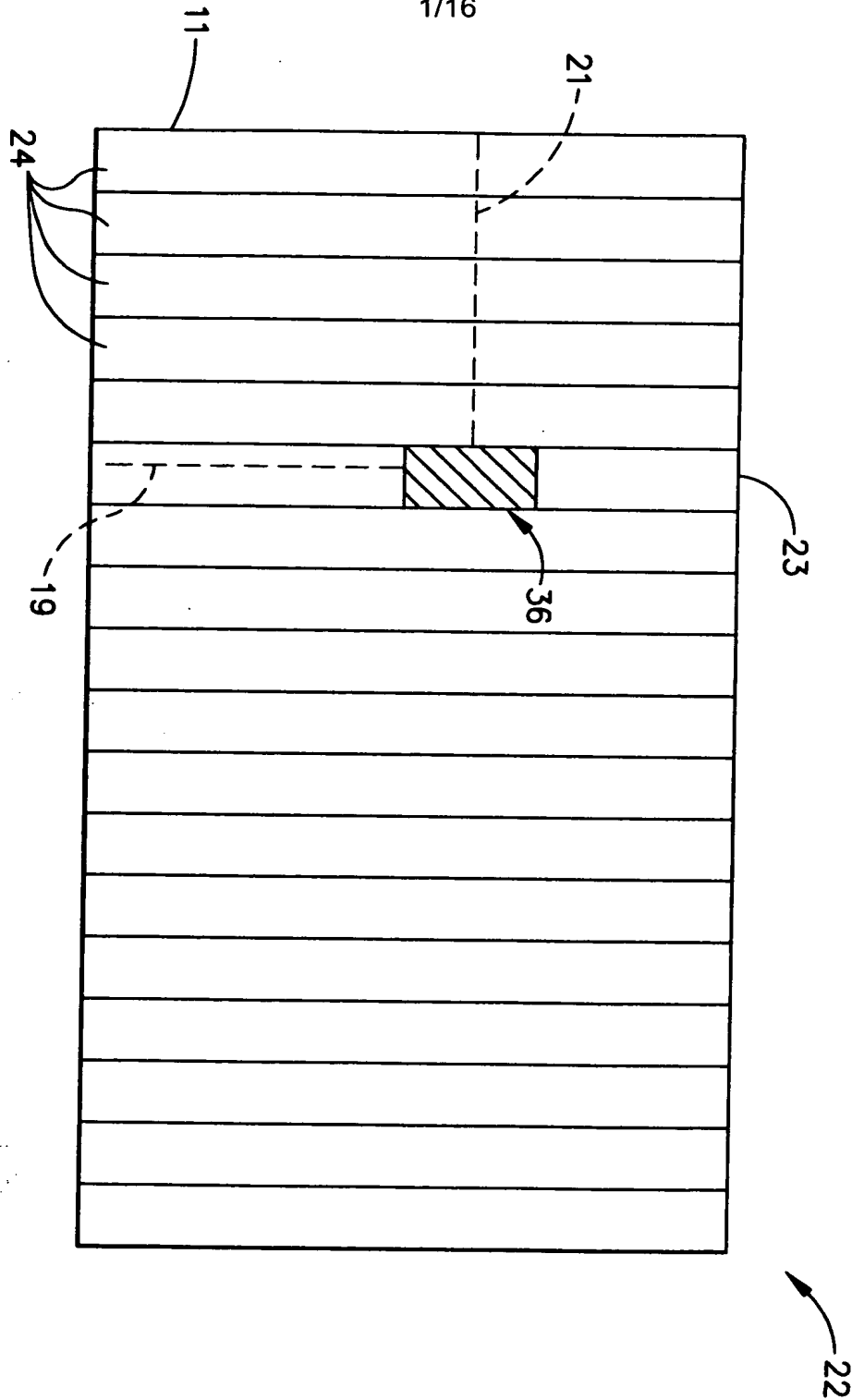


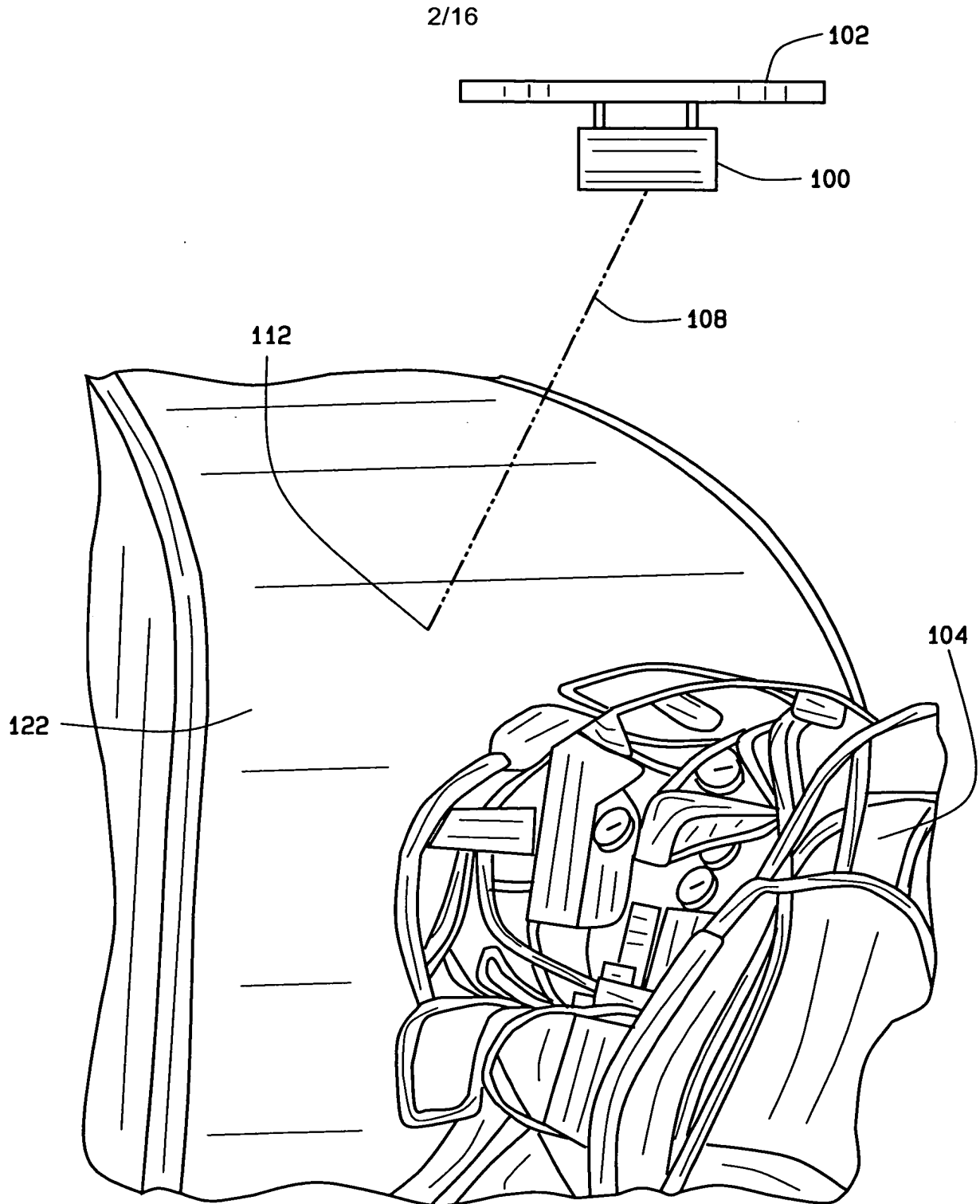
FIG. 1

Title: SYSTEMS AND METHODS FOR USING LIGHT TO INDICATE
DEFECT LOCATIONS ON A COMPOSITE STRUCTURE

Inventors: Engelbart et al

Atty. Ref.: 7784-000696

Attorney Mark D. Elchuk, (248) 641-1600



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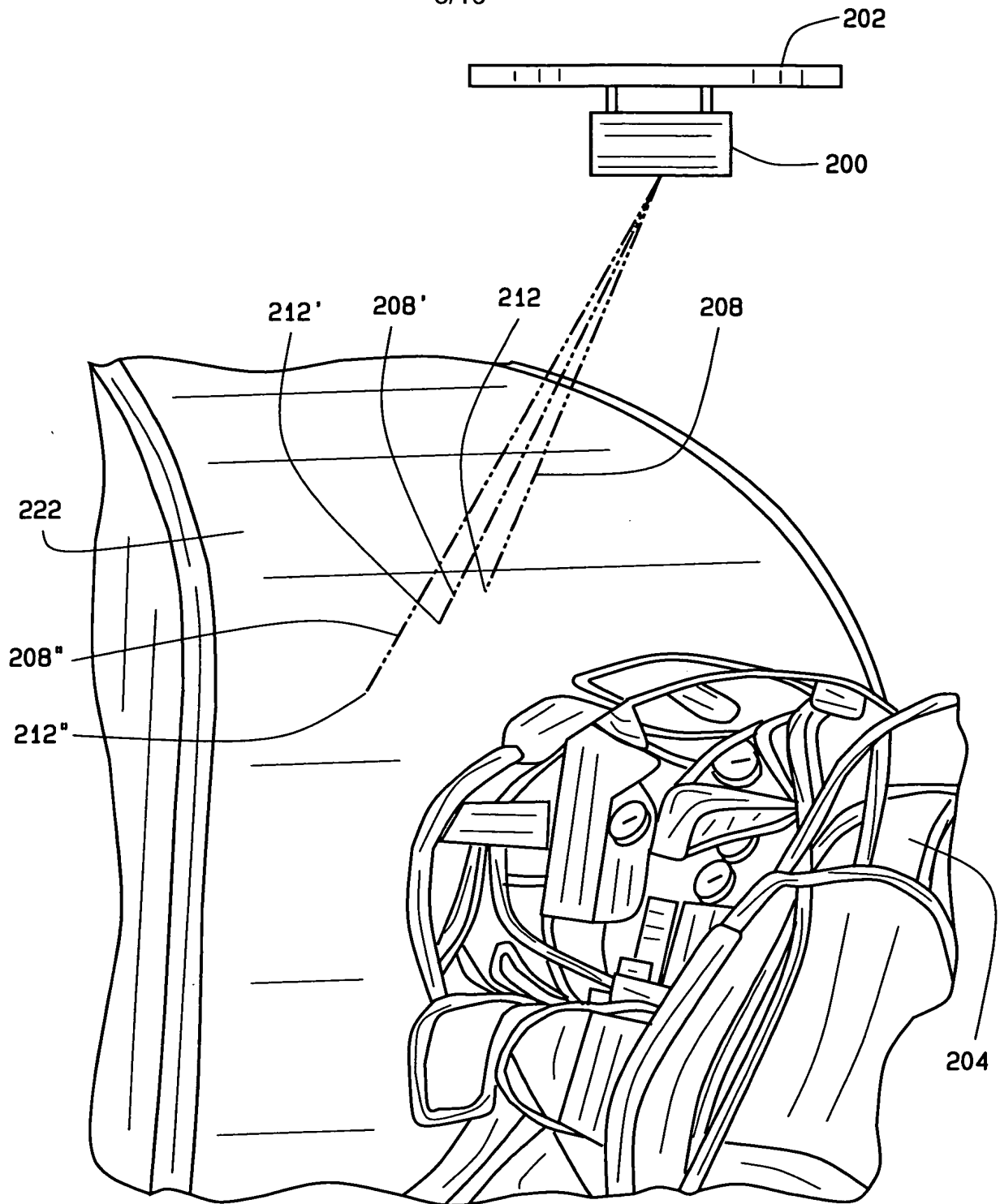


FIG. 3

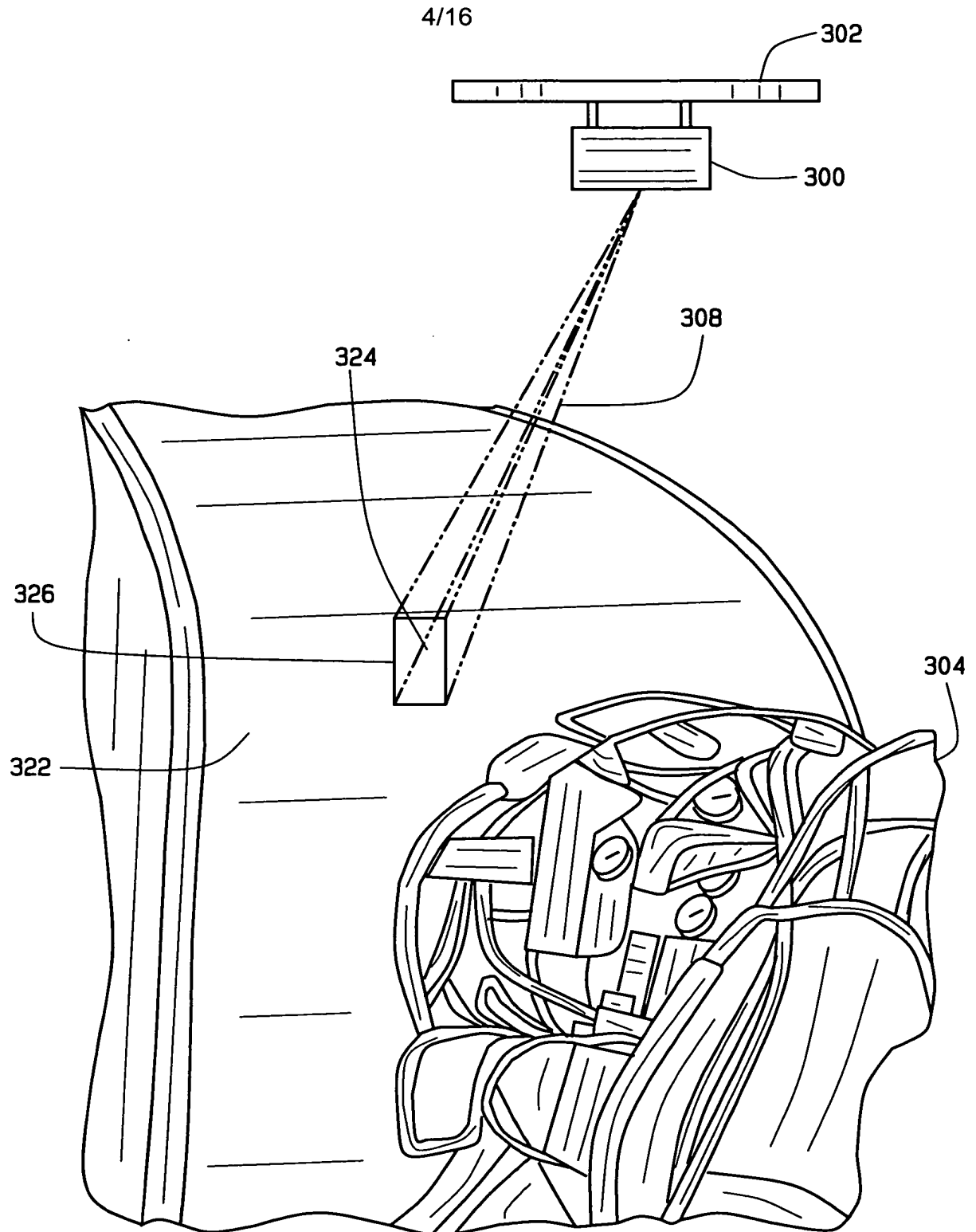
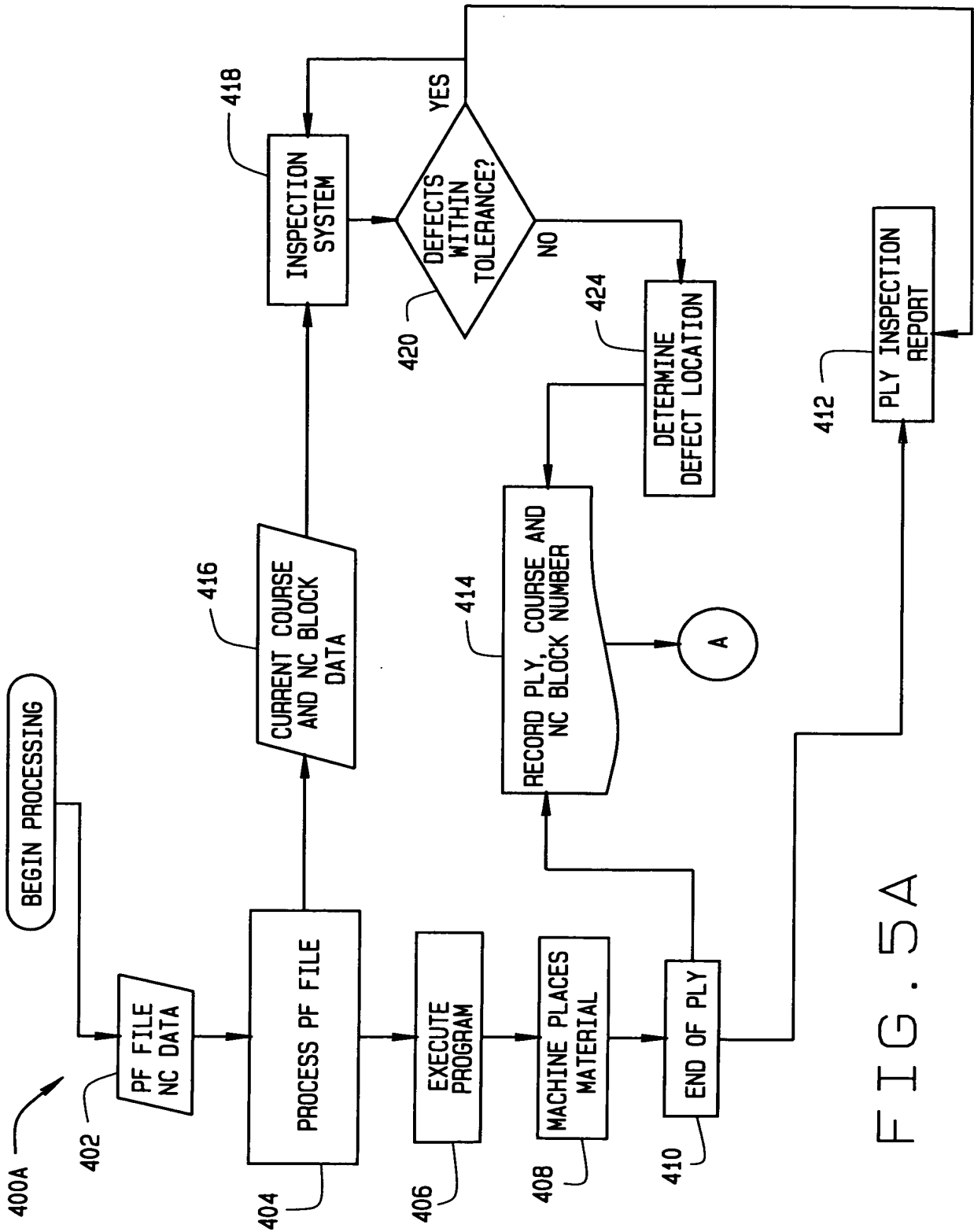
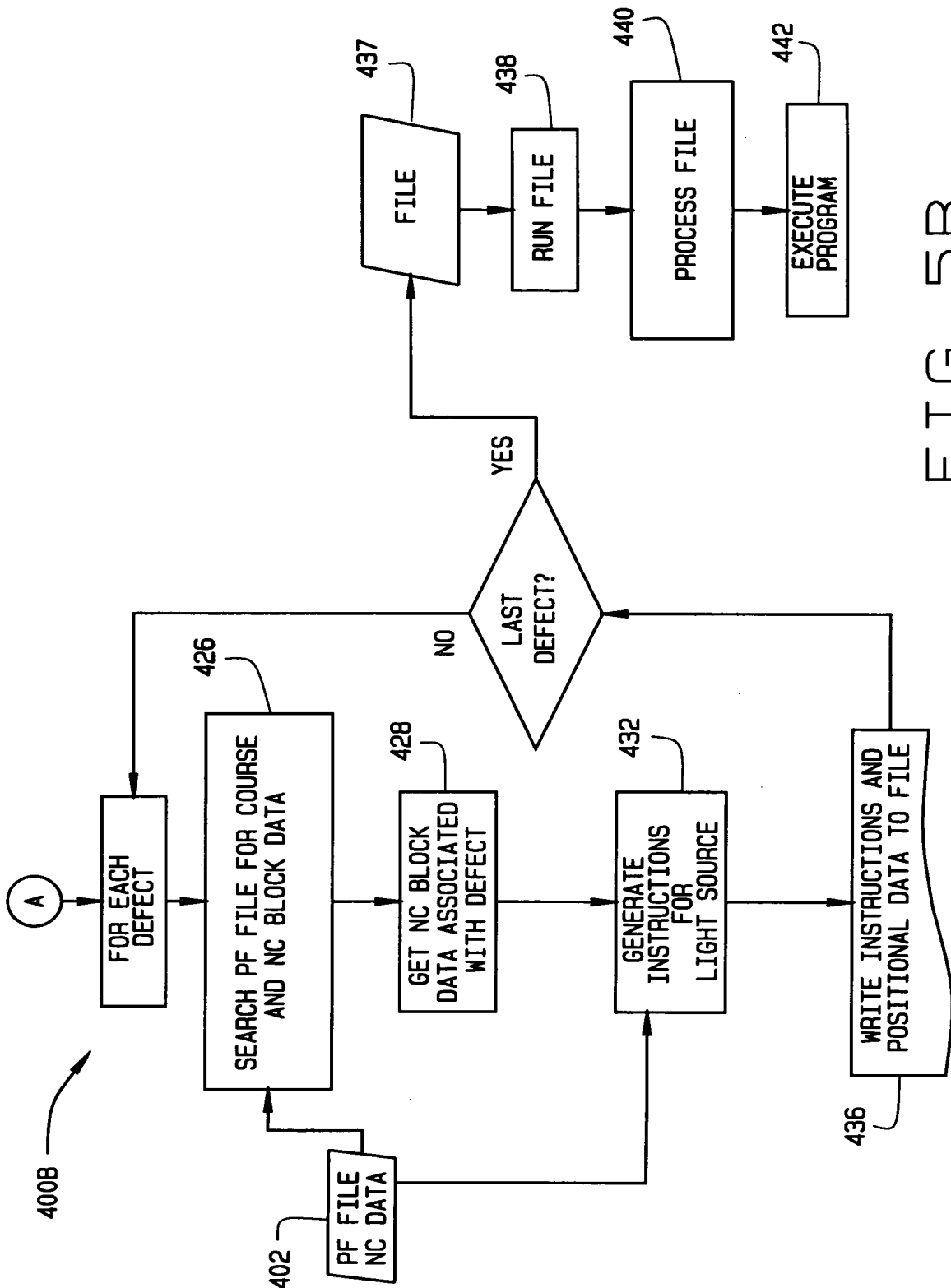
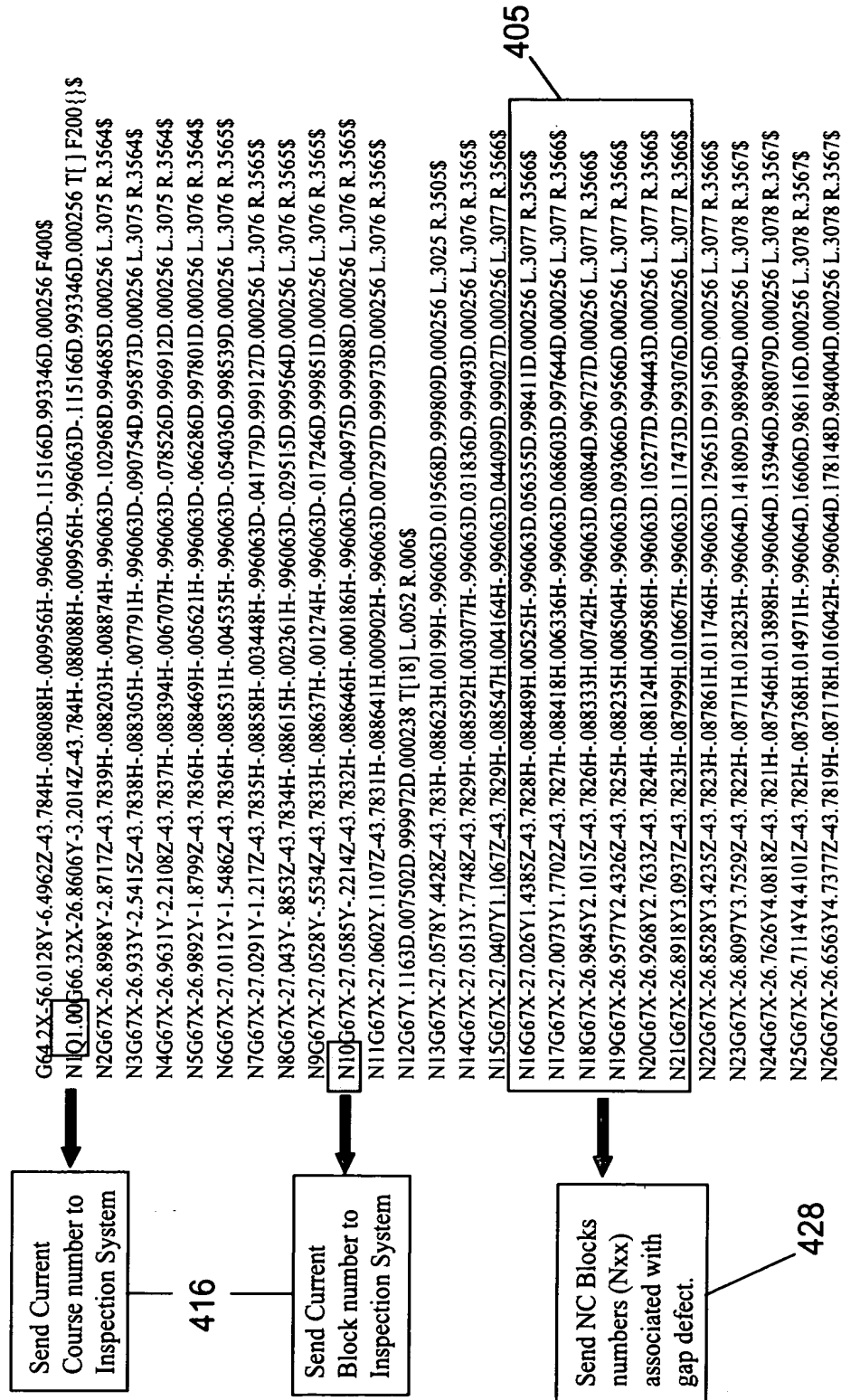


FIG. 4





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H Vector is the surface normal
D Vector is the path tangential vector

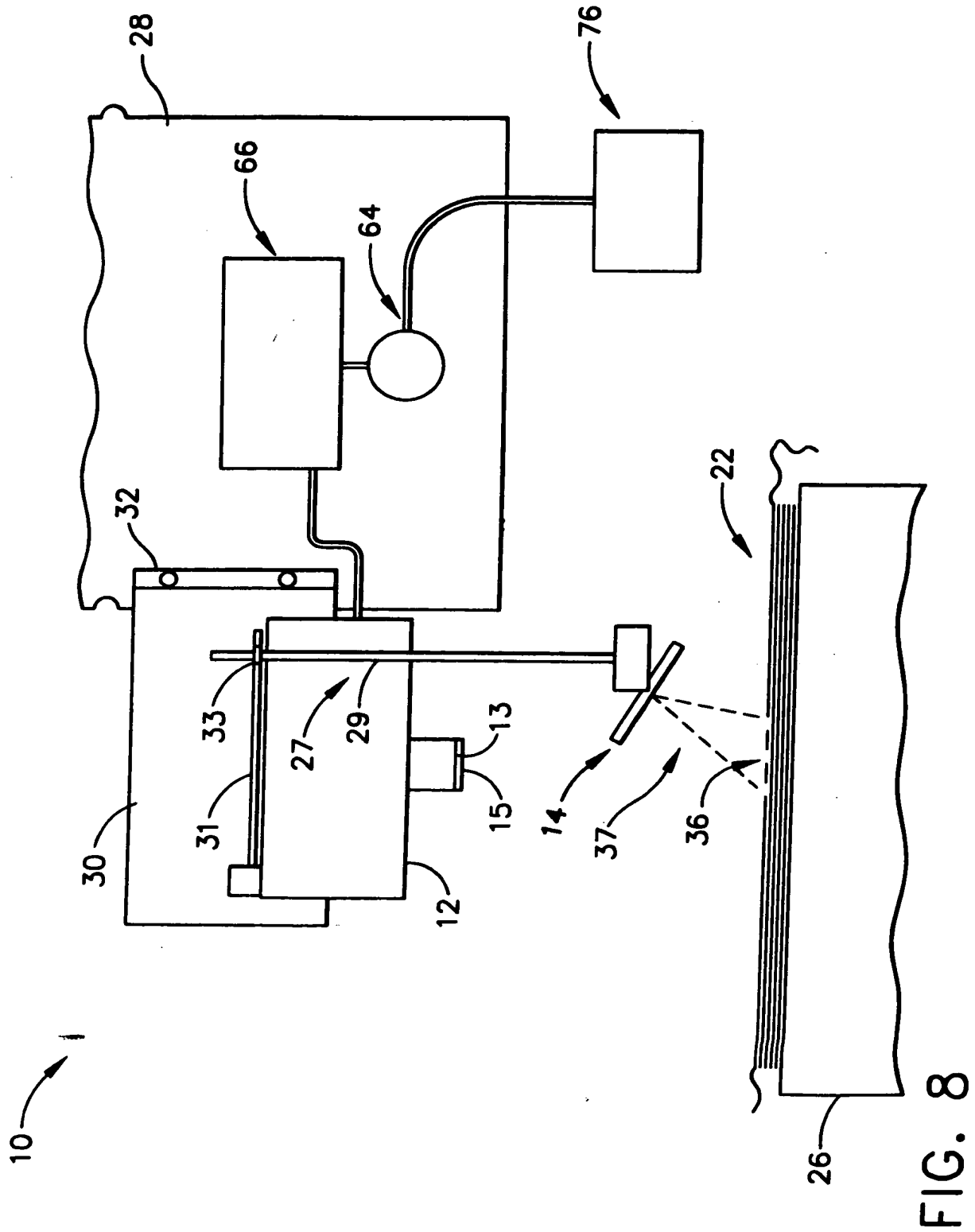
FIG. 6

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N75G67X-21.0014Y24.256Z-40.3284H-.523185H-.625822H-.578467D-.475303D-.77768D-.411462T[]L.2105 R.2278\$
N76G67X-20.9694Y24.3135Z-40.3008H-.520986H-.626242H-.579996D-.476623D-.777133D-.410967 L.0691 R.0748\$
N77G67X-20.7996Y24.6094Z-40.1583H-.510021H-.627664H-.588147D-.482329D-.774838D-.408639 L.3593 R.3871\$
N78G67X-20.5445Y25.0405Z-39.9483H-.495813H-.627241H-.600615D-.495996D-.772242D-.397027 L.5235 R.5492\$
N79G67X-20.1859Y25.6163Z-39.6704H-.489899H-.602916H-.629676D-.482231D-.789137D-.380416 L.7311 R.7653\$
N80G67X-19.8706Y26.1118Z-39.4231H-.471868H-.602715H-.643487D-.494341D-.785198D-.372949 L.6196 R.6529\$
N81G67X-19.5431Y26.6058Z-39.1746H-.455301H-.599345H-.658396D-.494171D-.785243D-.37308 F.400\$
G64.4X-32.7956Y44.051Z-39.1746H-.455301H-.599345H-.658396D-.494171D-.785243D-.37308 F.400\$
G64.3X-46.0181Y29.9728Z-41.489H-.837935H-.54577H0D-.54577D-.837935D0 F.400\$
G64.5X-53.549Y12.1877Z-43.8034H-.085443H-.019665H-.996149D-.288119D-.956602D-.043597 F.400\$
N1Q21.00G66.32X-24.3552Y5.4685Z-43.8034H-.085443H-.019665H-.996149D-.288119D-.956602D-.043597 T[]F200[]\$
N2G67X-24.4574Y5.8076Z-43.788H-.085193H-.020711H-.996149D-.276369D-.960062D-.043597 L.3321 R.3772\$
N3G67X-24.556Y6.1503Z-43.7724H-.084932H-.021755H-.996149D-.264575D-.963379D-.043597 L.3343 R.3794\$
N4G67X-24.6511Y6.4967Z-43.7568H-.084658H-.022793H-.996149D-.25275D-.966549D-.043596 L.3364 R.3816\$
N5G67X-24.7427Y6.8466Z-43.741H-.084371H-.023829H-.996149D-.240891D-.969573D-.043596 L.3386 R.3839\$
N6G67X-24.8305Y7.2001Z-43.7251H-.084072H-.024862H-.99615D-.228993D-.972451D-.043597 L.3407 R.3861\$

Retract and Approach motion between courses.

FIG. 7



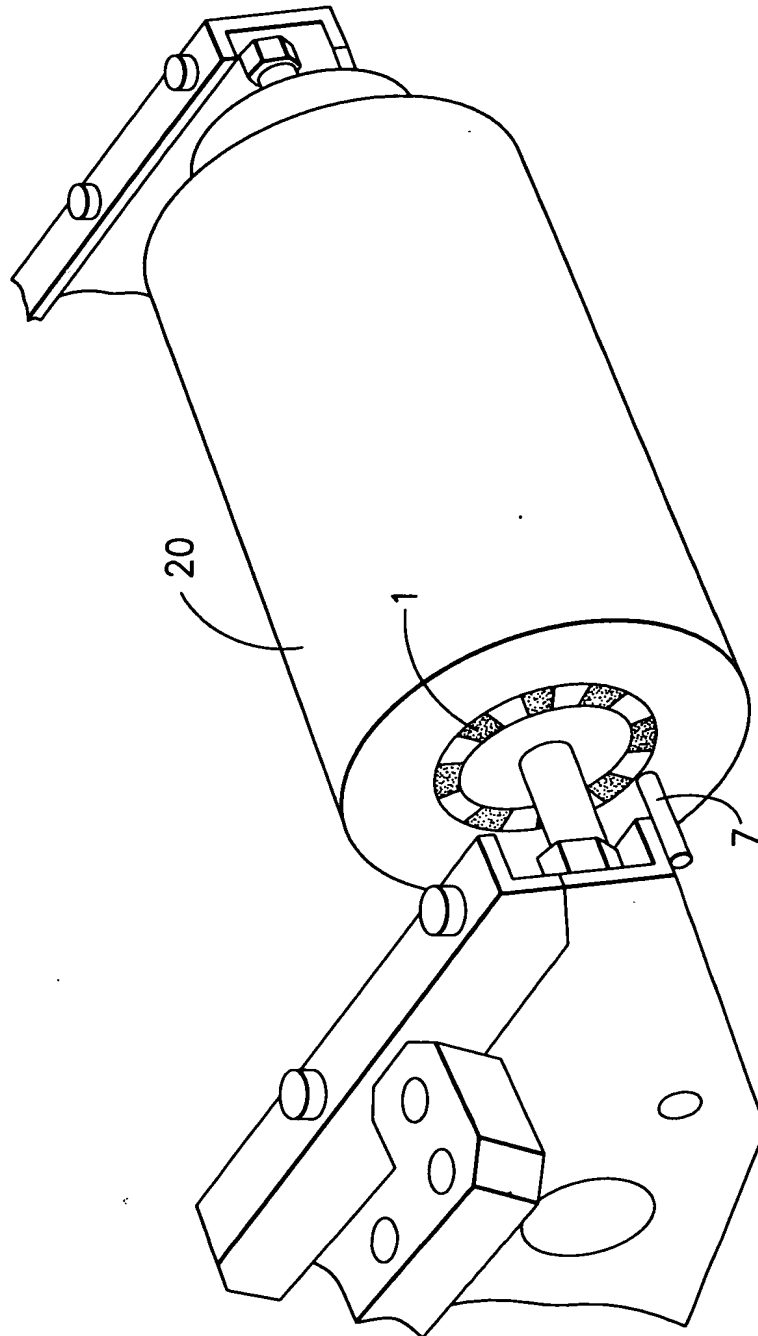


FIG. 9

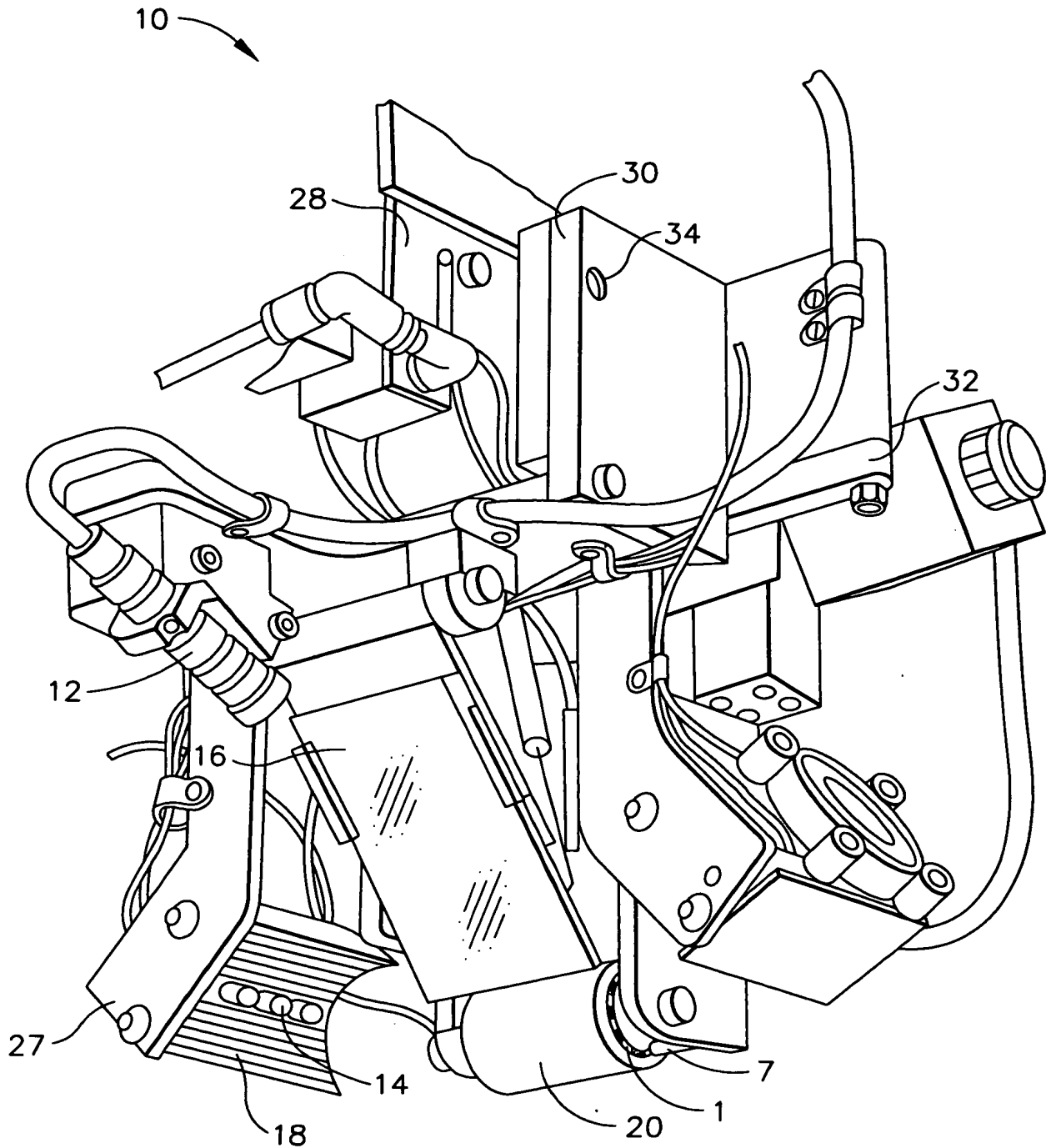
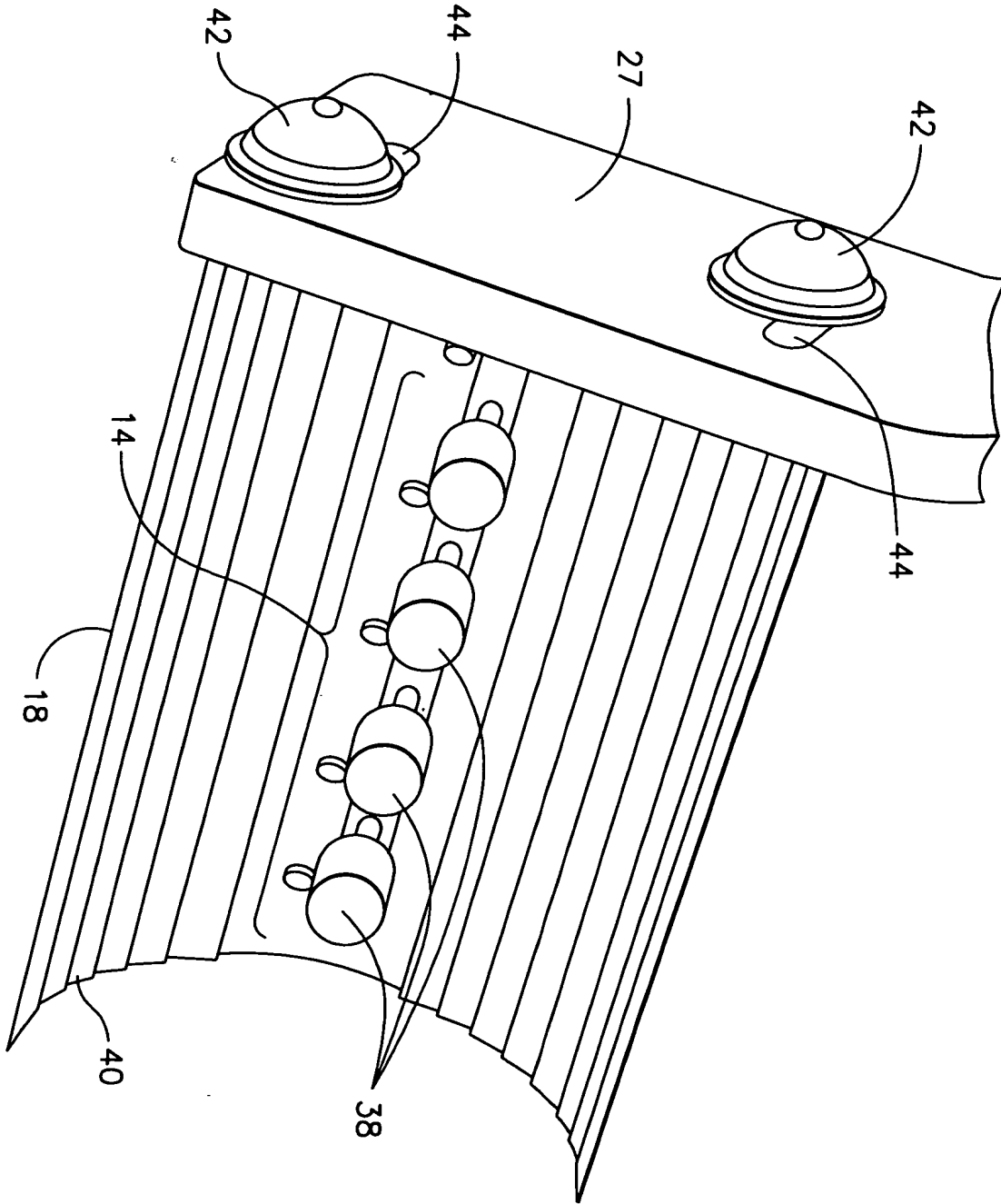
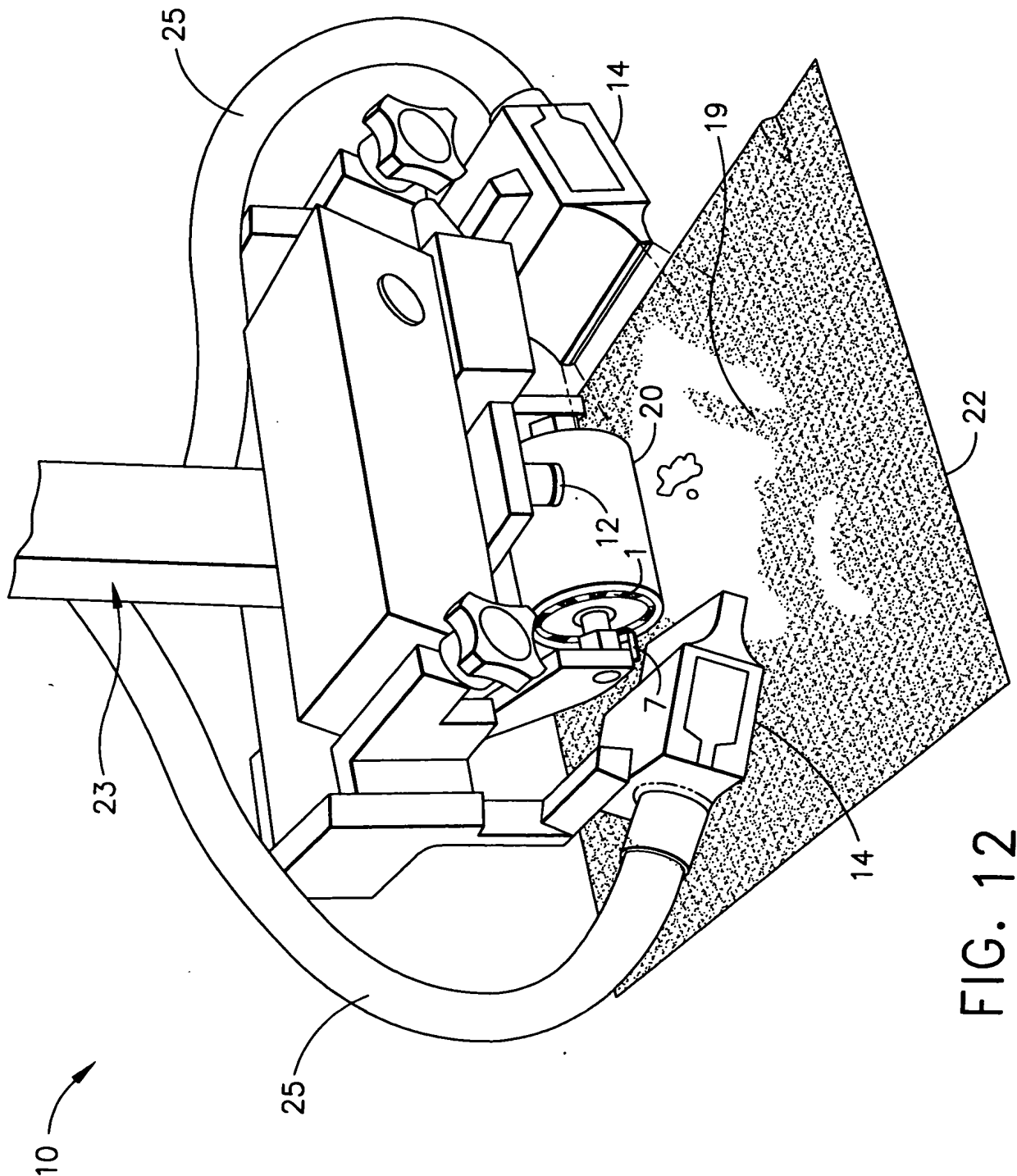


FIG. 10

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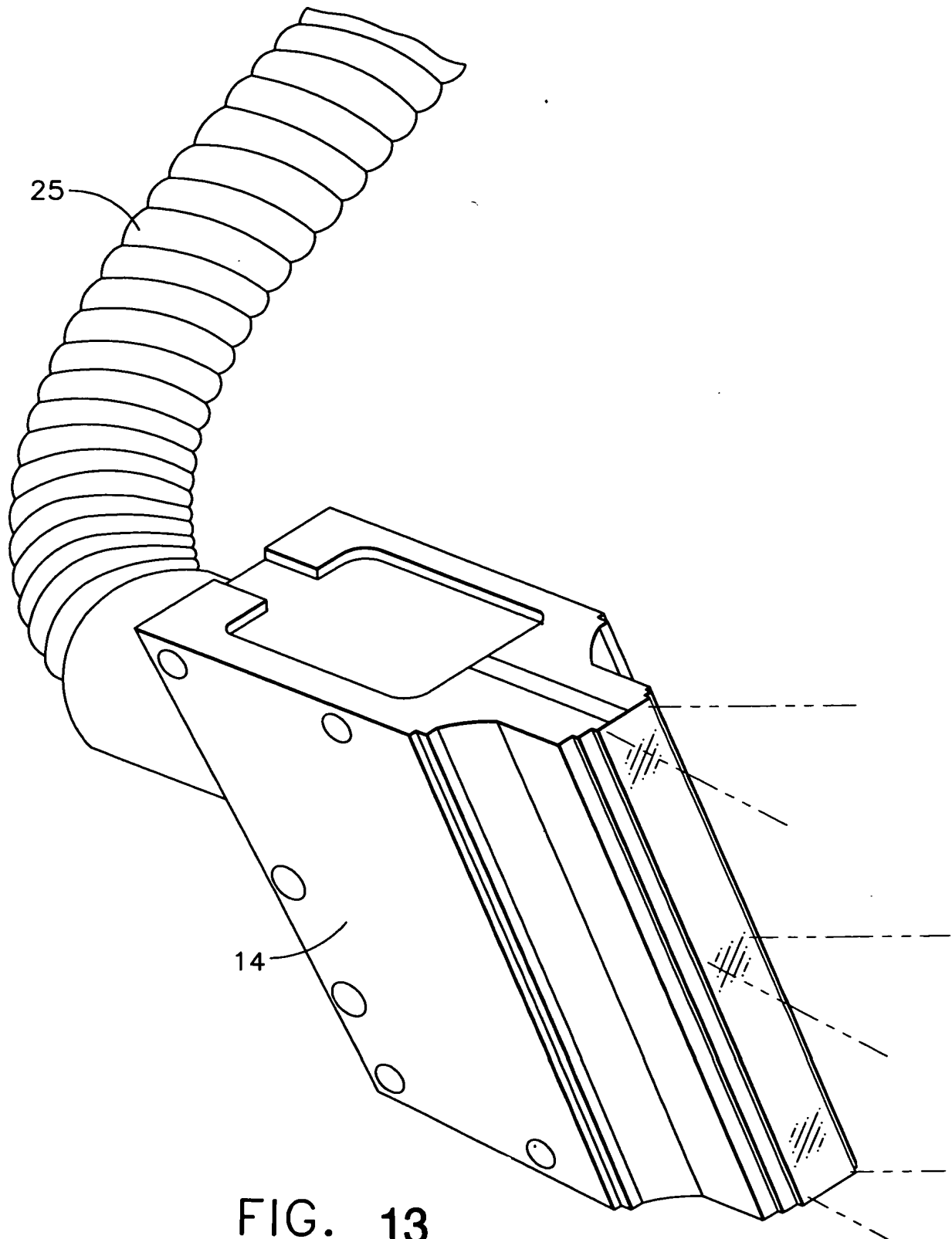


FIG. 13

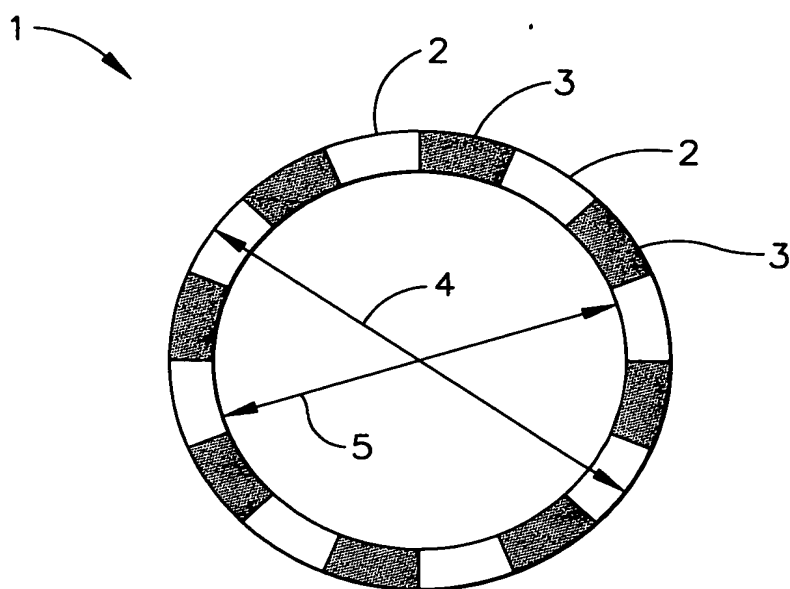


FIG. 14

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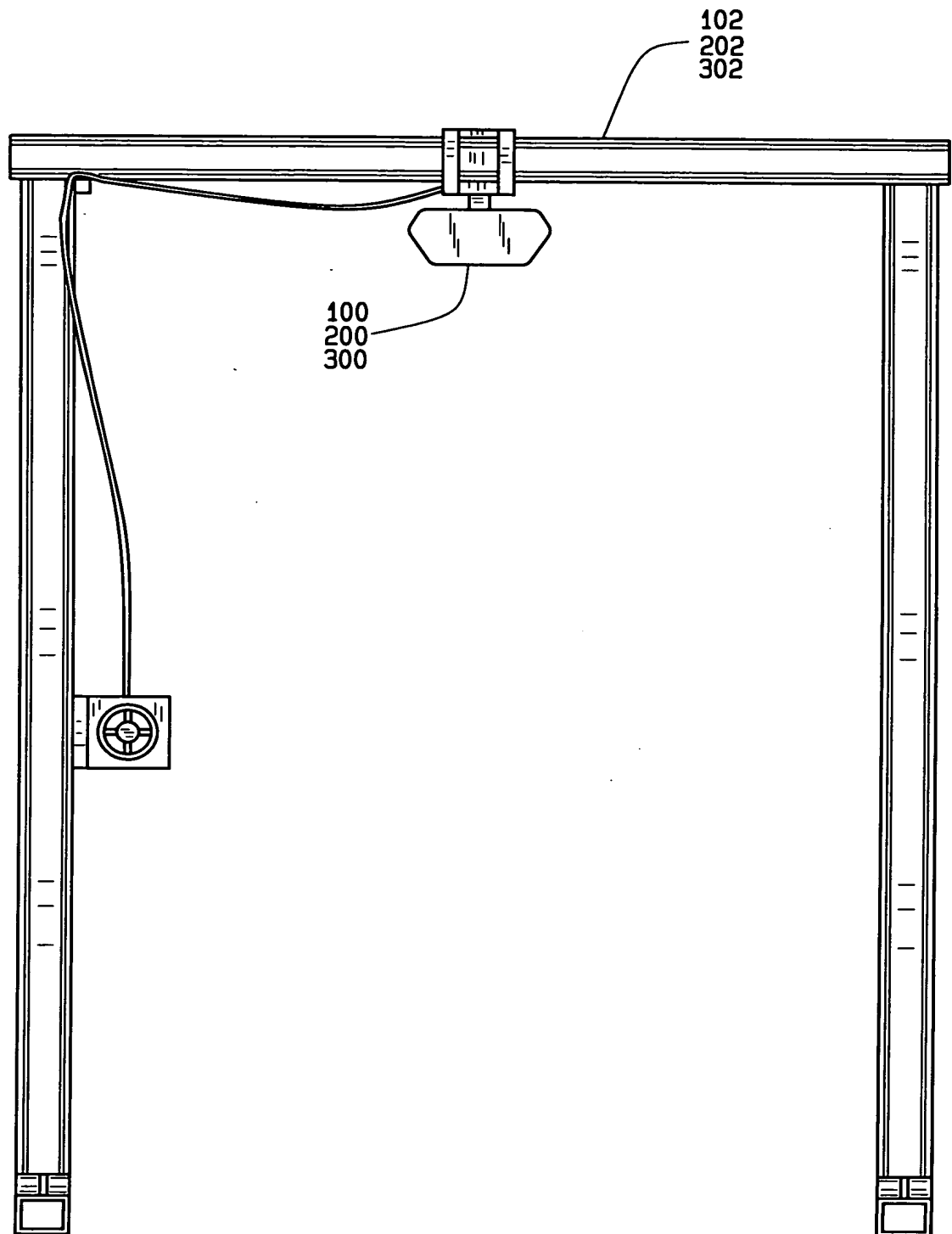


FIG. 15